

ATGAAGACAAACCATTATTTGATACTACTGACCCATTGGGTCTACAGTCAAACCCACCAACTGCCAAC
 AACACAGCCACRTTATGTCAGGGACACCATGCCAGTAGCAAATGAAACATTGGTAAAAACATAACTGAT
 GACCAAATTGAGGTGACAAATGCTACTGAATTAGTCCAGAGCATTCAATTAGGAAAATRGCAACAAAC
 TCATATAGGGTCTAGATGGAAGAAATTGACATTAATAGATGCCATGCTAGGGACCCCCATTGIGAT
 GATTTCACTATGAGAATTGGGACCTCTCATAGAAAGAACCGAGCGCTTCAGCAATTGCTACCCATAT
 GACATCCCTGACTATGCATGCCCTCCCTCATTTGAGCATCTCAGGAACATTAGAACAGCAGAG
 CGCTTCACATGGACACGGTGTCACTCAAAACGGAAGAACAGTGGAGCCTGCAAAAGGGATCAGCCGATAGT
 TCTTCACTGGACTGAAATTGGTAACAAAATCTGAAATTCTTACCCCATTTGAATGTGACAATGCC
 AACAAATAAAAATTGATAAACTATACATCTGGGGATTCACTACCCGAGCTGAAACAAAGAGCAGACA
 AAATTATATTCAGAACATCAGGACGGACTAACAGTCTCAACAGAAAGAACAGTCAACAAACAGTAACTCC
 AACATCGGATCTAGGCCGTGGTCAGGGTCAATCAGGAGATAAGCAATTACTGGACCATIGTAAAA
 CCTGGAGATAATTCTAATGATAAACAGTAATGCCACTTGTGACACTTGTGTCGAATGTATTACACCA
 ACAGGGAAAAGCTCTGTAATGAGATCAGATGCCACTCAATGACACTTGTGTCGAATGTATTACACCA
 AATGGAACCATCCCCAACGACAAACCATTTCAAAATGTGAACAAAATTACATATGAAAATGCCCAAG
 TATATCAGGAAAACACTTTAAAGCTGGCCACTGGGATGAGGAATGTACCAAGAAAAGCAAATCAGAGCA
 ATCTTGGACCAATACGGGATTCAAGAAAACCCCTGGAGGAAATCGTTGATGGTGGTATGGATT
 CGATATCAAAACTCGGAAGGAACACGGACAGCTGAGATCTAAAGAGCACTCAAGCAGCCATAGACCAG
 ATCAATGGAAAATTAAACAGAGTCATTGAAAGGACCAATGAGAAATTCCATCAAATAGAAAAGGAATT
 TCAGAAGTGAAGGGAGAATCAGGATTGGAGAAGTATGTAGAAGACACCAAAATAGACCTATGGTCC
 TACAATGAGAACATTGCTGGTGGCTCTAGAAAATCAACATAACATTGACTTAAACAGATGCCAGAAATGAAT
 AAATTATTCAGAGAAGACTAGGCCAGTTAAGAGAAAAGCGGAAGACATGGGAGGTGGATGTTCAAG
 ATTACACAAATGTGATAATGCAATCCATTGGATCAATAAGAAATGGACATATGACCAATTACATATAC
 AGAGATGAAGCATTAAACACCGATTCAAAATCAAAAGTGTGAGTTGAAATCAGGCTACAAAGATTGG
 ATACTGTGGATTTCATTGGCATATCATGCTTCTTAATTGGTTGTTCAATTGGTTTCAATTGTGG
 GCTTCCAAAAGGCAACATCAGGTGCAACATTGATTGAA

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FIGURE 1

ATGAAGACAACCATTATTTGATACTACTGACCCATTGGGTCTACAGTC
 AACCACCAACCAGTGGCAA
 CAACACAGCCACATTATGTCTGGGACACCATGCCAGTAGCAAATGGAACATTGGTAAAAACAATAACTG
 ATGACCAAATTGAGGTGACAAATGCTACTGAATTAGTTAGGCATTCAATAGGGAAAATATGCAAC
 AACTCATATAGAGTTCTAGATGGAAGAAATTGCACATTAATAGATGCAATGCTAGGAGACCCCCACTG
 TGATGTCTTCAGTATGAGAATTGGGACCTCTCATAGAAAGAAGCAGCGCTTCAGCAATTGCTACC
 CATATGACATCCCTGACTATGCATCGCTCCGGTCCATTGTAGCATCCTCAGGAACATTGGAATTCA
 GCAGAGGGATTACATGGACAGGTGTCACTCAAAACGGAAGAAGTCGAGCCTGCAAAAGGGGATCAGC
 CGATAGTTCTTACCGACTGAATTGGCTAACAAAATCTGAAACTCTTACCCACATTGAATGTGA
 CAATGCCTAACAAATAAAATTGACAAACTATACTGGGGATTCAACCCGAGCTCAAACCAA
 CAGCAAAAGAAATTGTACATCCAAGAACAGGACGAGTAACAGTCTCAACAAAAAGAAGTCAACAAAC
 GATAATCCCTAACATCGGATCTAGACCGTGGTCAGGGTCAATCAGGCAGGATAAGCATAACTGGA
 CCATTGTAACCTGGAGATATCCTAATGATAAACAGTAATGGCAACTTAGTTGCACCGCGGGATAT
 TTTAAATTGAAAACAGGGAAAAGCTCTGTAATGAGATCAGATGCACCCATAGACATTGTGTGCTGA
 ATGTATTACACCAAATGGAAGCATCCCCAACGACAAACCAATTCAAAATGTGAACAAAGTTACATATG
 GAAAATGCCCAAGTATATCAGGAAACACTTTAAAGCTGGCCACTGGGATGAGGAATGTACCA
 AAGCAAATCAGAGGAATCTTGGAGCAATGCGGATTCAAGAAACGGCTGGGAAGGAATGGTTGA
 TGGGTGGTATGGATTCCGATATCAAACCTCGGAAGGAACAGGACAAGCTGCAGATCTAAAGAGCA
 AACGAGCCATCGGACAGATTAAATGAAAATTAAACAGAGTGATTGAAAGGACCAATGAGAAATTCC
 CAAATAGAGAAGGAATTCTCAGAAGTAGAAGGGAGAATCCAGGACTTGGAGAAGTATGAGAACAC
 CAAAATAGACCTATGGCTTACAATGCAGAATTGCTGGTGGCTCTAGAAAATCAACATACAATTGACT
 TAACAGATGCAGAAATGAATAAAATTGAGACTAGACGCCAGTTAAGAGACAAACGGGAAGAC
 ATGGGAGGTGGATGTTCAAGATTTACACAAATGTGATAATGCAATGCAATTGGATCAATAAGAAA
 GACATATGACCATTACATATACAGAGATGAAGCATTAAACACCGATTCAAAATCAAAGGTGTTGAGT
 TGAAATCAGGCTACAAAGATTGGATACTGTGGATTTCATTGCCATATCATGCTTCTTAATTGCGTT
 GTTCTATTGGTTCAATTGTCGGCTTGGCAAAAAGGCAACATCAGATGCAACATTGCAATTG
 GTTCTATTGCGTTCAATTGTCGGCTTGGCAAAAAGGCAACATCAGATGCAACATTGCAATTG

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FIGURE 2

ATGAACCCAATCAAAGATAATAACAATTGGATCTGCATCATTAGGAGTACTAATCCTCAGGTCAATT
CTCCATGTAGTCAGCATTATAGTAACAGTACTGGTTCTCAATAACAATGGAACAGGTCTGAACCTGCAAC
GGGACGATCATAAGAGAGTACAATGAAACAGTAAGAGTAGAAAGAATCACCCAAATGGTATAATACTAGT
ACAATTGAGTACATAGAAAGATCTTCAAATGAATACTACATGAACAAACACCGAACCACTTTGTGAGGCC
CAGGGCTTTCGACCAATTTCCAAAGACAATGGAATACGAATTGGGTGAGAGGCCATGTTTTGTAAATA
AGAGAACCTTTGTATCATGTTGCCCCCTCAGAAATGTAGAACCTTTTCCTCACACAGGGCTCATTACTC
AATGACAACATTCTAACGGCACAGTGAAGGACCGAAGTCCATATAGGACTTTGATGAGTGTCAAAATA
GGGCAATCACCTAAATGTGTATCAAGCTAGGTITGAATCGGTGGCATGGTCAGCAACAGCATGCCATGAT
GGAAAAAAATGGATGACAGTTGGAGTCACAGGGCCCGACAATCAAGCAGTTGCAAGTAGTGAACATGG
GGTGTTCGGTTGATATTATAATTCAATGGGATATCTTAAGAACCCAAAGAACATGTCATGCACC
TGCATTAAGGAGACTGTTATTGGGTGATGACTGATGGACCGGAAACAGGCAAGCTAAATAATAGGATA
TTCAAAGCAAAATGGAAGAATAATTGGCAGACTGATATAAGTTCAATGGGGACACATAGAGGAG
TGTTCCTGTTACCCAAATGAACGGAAAGGTGGAATGCATATGCAGGGACAACGGACTGGAAACAAATAGA
CCAATTCTGGTAATATCTCTGATCTACAGTGGATATTGTTGCTGGCATTCCTGAC
ACTCCTAGGGAGAGGAGATGTCAATTACAGGCTCATGTACAAGCCCTTGGAAATAAAGGATACGGT
GTAAAAGGTTTGGGTTTCGACAAGGAACGTGACGTATGGCCGGAGGACAATTAGTAGGACTTCAAGA
TCAGGATTGAAATAATAAAGATCAGGAATGGTGGACACAGAATAGTAAAGATCAAATCAGAAGGCAA
GTGATTATTGATAACCTAAATTGGTCAGGATAATGGGTTCTTCACTATGCGGTTGAAACTAACAAA
AAGGGATGTTAGTCCCCTGTTCTGGGTTGAAATGATTAGAGGTAAACCTGAAAGAAACAAACAATATGG
ACCTCTAGCAGCTCATTGTGATGTTGGAGTAGATCATAAAGTTGCCAGTTGGTCATGCCACGATGGA
GCTATTCTTCCCTTGTGACATCGATAAGATGTAA

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FIGURE 3

ATGAATCCAAATCAAAAGATAATAACAATTGGATCTGCATCAATTGGAAATTAAATCATCAACGTCATT
CTCCATGTAGTCAGCATTATAGTAACAGTACTGGTCCTCAATAACAATGGAACAGGTCTGAACCTGCAAA
GGGACGATCATAAGAGAGTACAATGAAACAATAAGAGTAGAAAGAATTACTCAATGGTATAATACCACT
ACAATTGAGTACATAGAGAGACCTCAAAATGAATACTACATGAACAAACACCGAACCTTTGTGAGGCC
CAAGGCTTTGCACCATTTCCAAGATAATGAAATACGAATTGGTCGAGAGGCCATGTTTTGTAATA
AGAGAACCTTTGTCTCATGTTCCCCCTCAGAATGTAGAACCTTTCTCACACAGGGCTCATTA
AATGACAAACATTCTAACGGCACAGTGAAGGACCGAAGTCCATATAGGACTTTGATGAGTGTCAAAATA
GGCAATCACCTAATGTGTATCAAGCTAGGTTGAATCGGTGGCATGGTCAGCAACAGCATGCTATGAT
GGAAAAAAATGGATGACAGTGGACTCACAGGGCCGATAATCAAGCAATTGCACTGTAGTGAACATGGA
GGTGTTCGGTTGATATTATAATTCAATGGCAGGGGATATCTAAGAACCCAAGAACGTCAATGCACC
TGCATTAAAGGAGACTGTATTGGGTGATGACTGATGGACCCGAAATAGGCAAGCTAAATAAGGATA
TTCAAAGCAAAAGATGGAAGAATAATTGGCAGACTGATATAAGTTCAATGGGGACACATAGAGGAG
TGTCTTGTACCCCAATGAAGGGAGGTGGAATGCATATGCAGGGACAACGGACTGGAACAAATAGA
CCAATTCTGTAATATCTCTGATCTACGTACACAGTCGGATATTGTTGCTGGCATTCCTGAC
ACTCCTAGGGAGAGGATAGTCATTACAGGCTCATGTACAAGTCCTTGGAAATAAGGATACTGGT
GTAAAAGGTTTGGGTTTCGACAAGGAACGTGACGTATGGCCGGAAGGACAATTAGTGGACTTCAGA
TCAGGATTGAAATAATAAAATCAGGAATGGTGGACACAGAACAGTAAAGACCAAATCAGAAGGCAA
GTGATTATTGATAACCAAATTGGTCAGGATATAGCGGTCTTACACATTGCCGGTTGAACTAACAAAA
AAGGGATGTTAGTCCCCGGTTCTGGGTTGAAATGATTAGAGGTAAACCTGAAGAAACAACAATATGG
ACCTCTAGCAGCTCCATTGTGATCTCTGGAGTAGATCATAAAATTGCCAGTTGGTCATGGCACGATGGA
GCTATTCTCCCTTTGACATAGACAAAGATGTAG

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FIGURE 4

ATGGCGTCTCAAGGCACAAACGATCTTATGAGCAGATGAAACTGATGGGAAACGCCAGAAATGC
 AACTGAAATCAGAGCATTGTCGGAAGGATGGTGGGAGGAATCGGCCGGTTATGTCAGATGT
 GTACTGAGCTTAAATTAAACGACCATGAAGGCCGGCTGATTAGAACAGCATAACAATAGAAAGG
 ATGGTACTTTCCGCATTGACGAAAGAAAGAACAAAGTACCTCGAGGAGCATCCCAGTGGCTGGAA
 AGACCCATAAGAAAACGGAGGCCGATATAACAGAACAGAAAGATGGAAATGGATAAGAGAACTCA
 TCCTCCATGATAAAAGAGGAAATCATGAGGGTCTGGCGTCAGGCCAACAAATGGTGAAGATGCTACT
 GCTGGTCTTACCCATTTGATGATCTGGCACTCCAATCTCAATGACACCACATACCAAAGAACAAAG
 GGCTCTTGGTCCGACTGGATGGATCCAGAAATGTGCTCTGATGCAAGGATCAACCTCCAC
 GGAGATCTGGAGCTGCCGGTGCAGTAAAGGTGTTGGAACATGATAATGAAACTCATCAGG
 ATGATCAAACGGGGATAATGATGAAATTCTGGAGAGGTGAAAATGGTGAAGAACCAAGAAT
 TGCTTATGAAAGAATGTGCAATACTCTCAAAGGAAATTCAAAACAGCAGCACACGGGCTAEGA
 TGGACCAAGTGGAGGGAGGCCGCAATCCTGGAAATGCTGAGATTGAGGATCTCATTTCTGGCA
 CGATCAGCACTCATTTGAGAGGATCAGTAGCCATAAAATCATGCCCTACCTGCCCTGTGTTATGG
 CCTTGCAGTAACCAGTGGTATGACTTTGAGAACAGGATACTCTGGTGGGATTGATCCTT
 TCAAACACTCCAGAACAGCAAATTTCAGTCTAATCAGACCGAAAGAAAATCCAGCACACAAG
 AGCCAGTTGGTGTGGATGGCATGCCATTCTGAGCATTGAGGACCTGAGAGTTGAATTCTAT
 TAGAGGAACAAAAGTAATCCAAGAGGACAGTTGGCAACCAGAGGAGTGCAGATTGCTTCAAATG
 AAAACATGGAGACAATAGATTCTAGCACACTCGAACTGAGAACAGATAATTGGCAATAAGGACC
 AGAAAGTGGAGGAAACACCAGTCACAGAGAGGCATCTGAGGACAGATAAGTGTGCAACCTACTTT
 CTCAGTGCAGAGAAATCTCCCTTGTAAAGAGGCAACCATTATGGCTGCATTACTGGAACACTG
 AGCGGAGGACTTCCGACATGAGAACGGAAATCATAAGGATGATGGAAAATGCCAAATCAGAACAG
 GTGTCTTCCAGGGGGGGAGTCTCGAGCTCTGGACGAAAAGGCAACGAACCCGATCGTGC
 TTCCCTTGACATGAGCAATGAAGGGCTTATTTCTCGGAGACAATGCTGAGGAGTATGACAGT

AA

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FIGURE 5

ATGGCGTCTCAAGGCACCAACGATCTTATGACCAGATGGAAACTGATGGGAACGCCAGAAATGCAACT
GAAATCAGAGCATCTGTCGGAAGGATGGTGGGAGGAATCGGCCGGTTTATGTCAGATGTGTACTGAG
CTTAAACTAAACGACCATGAAGGGCGCTGATTCAAGAACAGCATAACAATAGAAAGGATGGTACTCTCG
GCATTGACGAAAGAAGAAACAGTATCTGAGGGACATCCCAGTGCTGGGAAAGACCCCTAAGAAAACG
GGAGGCCCCGATATACAGAAGGAAAGATGGAAATGGATGAGAGAACTCATCCTCCATGATAAAGAAGAA
ATCATGAGGATCTGGCGTCAGGCCAACAAATGGTGAAGACGCTACTTGCTGGCTTACTCATATGATGATC
TGGCACTCCAATCTCAATGACACCAACACATACCAAAGAACAAAGGGCTCTTGTCTGGACTGGGATGGATGCC
AGAATGTGCTCTGATGCAAGGCTCAACCCCTCCACGGAGATCTGGAGCCGCTGGTGTGCAGTAAAA
GGTGTGGAACAATGGTAATGGAACCTCATCAGAAATGATCAAACGCGGGATAATGATCGGAATTCTGG
AGAGGTGAAAATGGTGAAGAACCAAGAACGAAATTGCTTATGAAAGAATGTGCAATATCCTCAAAGGGAAATT
CAGACAGCAGCAACGGCTATGATGGACCAGGTGAGGGAGGCCAACTCTGGAAACGCTGAGATT
GAGGATCTCATTTCTGGCACGATCAGCACTTATTGGAGAGGATCAGTAGCCATAAATCATGCCAA
CCTGCCTGTGTTATGCCCTGCACTAACAGTGGGTATGACTTTGAGAACGAAGGAACTCTCTGGTT
CGAATTGATCCTTCAAACACTCCAGAACAGCCAAATTTCAGCTAAATCAGACCGAAAGAAAACCA
GCACACAAGAGCCAGTGGTGTGGATGCCATGCCATTCTGCAGCATTGAGGACCTGAGAGTTTGAAT
TTCAATTAGAGGAACCAAAGTAATCCAAGAGGACAGTTAGCAACCAGAGGAGTCAAATTGCTTCAAAT
GAAAACATGGAGACAATAGATTCTAGCACACTCGAATGAGAACCAAATTGGCAATAAGGACCAGA
AGTGGAGGAAACACCAGTCACAGAGAGCATCTGCAGGACAGATAAGTGTGCAACCTACTTTCTCAGTG
CAGAGAAATCTCCCTTGAAAGAGCAACCATTTATGGCTGCATTCACTGGGAACACTGAAGGGAGGACT
TCCGACATGAGAACGGAAATCATAAGGATGATGGAAATGCCAAATCAGAAGATGTGTCTTCCACGGG
CGGGAGTCTCGAGCTCGGACGAAAGGCAACGAACCGATCGTGCCTTCCATTGACATGAGCAAT
GAAGGGTCTTATTCTCGGAGACAATGCTGAGGAGTTGACAATTAA

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FIGURE 6